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John E. Beck  
Xerox Corporation  
Xerox Square-20A  
Rochester, NY 14644

EXAMINER
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SAIN, GAUTAM

ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 04/20/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/738,992

**Applicant(s)**

KURUOGLU ET AL.

**Examiner**

Gautam Sain

**Art Unit**

2176

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 November 2004.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
6) ☒ Claim(s) 1-22 is/are rejected.  
7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.  
10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)  
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.  
4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) ☐ Notice of Informal Patent Application (PTO-152)  
6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 103***

1) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**1-1) Claims 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carleton et al (US Patent 5781727, issued Jul 1998) in view of Tran (US Patent 6054990, filed Jul 1996), further in view of Simonoff (US 6351777, filed Apr 23, 1999), further in view of Cass (US 5692073, issued Nov 1997).**

**In regard to independent claim 1, Carleton teaches a plurality of workstations comprising a computer processor, a display (ie., computers linked together displaying)(col 1, line 65 – col 2, line 5). Carleton does not expressly teach, but Tran teaches a capture device for capturing a digital image of a document (ie., text or graphical illustration, camera , electronic notepad; digital )(co 2, lines 59-63; col 7, lines 46 - 60).**

**Carleton teaches a base computer communicating with the plurality of workstation (ie., a single computer runs an application and displays on other computers)(col 1, line 65 – col 2, line 5).**

**Carleton does not express teach but Tran teaches (a) identify handwritten annotations in digital images of document captured at each workstation (ie., handwritten recognition software**

for entry/display of pen-based computer as an electronic notepad for annotating photographs, pictures captured by a camera that is uploaded to a user computer) (col 7, lines 55-65).

Carleton in view of Tran doesn't expressly teach, but Simonoff teaches (b) communicate data ... plurality of workstations (ie., users at dissimilar computers can annotate the information presented to all users)(col 1, lines 20-25).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (c) use of data ... each workstation (ie., a decoder at client computer that decodes at a user location so user can work on his/her own version)(col 4, lines 40-50).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (d) displaying ... first and second workstations (ie., first and second users instantiate objects on the whiteboard clients, that are relayed to the other clients)(col 7, lines 5-18).

Carleton in view of Tran does not expressly teach, but Simonoff teaches the one or more ... each workstation (ie., at each client computer, the interpreter decoder decodes information specifying an operation to be performed at user)(col 4, lines 44-50).

Carleton in view of Tran and Simonoff does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton to include digital/graphical electronic files and handwritten annotations as taught by Tran, providing the benefit of creating and attaching text or

graphical illustrations to a message, file, data set including photographic annotations depicting circumstances leading up the photograph/graphical image (Tran, col 2, lines 59-67), further to include users at dissimilar computers annotating the information presented to users, a decoder at client computer that decodes at a user location specifying an operation to be performed at user location, where first and second users collaboratively annotate objects on the whiteboard as taught by Simonoff, providing the benefit of facilitating interchange of information between two or more dissimilar computer users, where users can annotate the information presented to all users (Simonoff, 1, lines 20-30) further to include annotations of an image of an image of a particular hardcopy instance document as taught by Cass, providing the benefit of using formless forms offering a new flexibility when applied in existing paper based user interfaces also providing new applications for paper-based user interface (Cass, col 3, lines 30-37).

**In regard to independent claim 11**, Carleton teaches a plurality of workstations comprising a computer processor, a display (ie., computers linked together displaying)(col 1, line 65 – col 2, line 5). Carleton does not expressly teach, but Tran teaches a capture device for capturing a digital image of a document at each workstation (ie., text or graphical illustration, camera , electronic notepad; digital )(co 2, lines 59-63; col 7, lines 46 - 60).

Carleton teaches a base computer communicating with the plurality of workstation (ie., a single computer runs an application and displays on other computers)(col 1, line 65 – col 2, line 5).

Carleton does not expressly teach but Tran teaches identifying ... workstation (ie., handwritten recognition software for entry/display of pen-based computer as an electronic notepad for annotating photographs, pictures captured by a camera that is uploaded to a user computer) (col 7, lines 55-65).

Carleton in view of Tran doesn't expressly teach, but Simonoff teaches (c) distributing data ... plurality of workstations (ie., users at dissimilar computers can annotate the information presented to all users)(col 1, lines 20-25).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (d) using the data ... each workstation (ie., a decoder at client computer that decodes at a user location so user can work on his/her own version)(col 4, lines 40-50).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (e) displaying ... first and second workstations (ie., first and second users instantiate objects on the whiteboard clients, that are relayed to the other clients)(col 7, lines 5-18).

Carleton in view of Tran does not expressly teach, but Simonoff teaches the one or more ... each workstation (ie., at each client computer, the interpreter decoder decodes information specifying an operation to be performed at user)(col 4, lines 44-50).

Carleton in view of Tran does not expressly teach, but Simonoff teaches wherein the one or more ... annotation's creation and author (ie., user can select shapes to annotate the whiteboard/image)(fig 7).

Carleton in view of Tran and Simonoff does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an

image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton to include digital/graphical electronic files and handwritten annotations as taught by Tran, providing the benefit of creating and attaching text or graphical illustrations to a message, file, data set including photographic annotations depicting circumstances leading up the photograph/graphical image (Tran, col 2, lines 59-67), further to include users at dissimilar computers annotating the information presented to users, a decoder at client computer that decodes at a user location specifying an operation to be performed at user location, an annotation selection where first and second users collaboratively annotate objects on the whiteboard as taught by Simonoff, providing the benefit of facilitating interchange of information between two or more dissimilar computer users, where users can annotate the information presented to all users (Simonoff, 1, lines 20-30) further to include annotations of an image of an image of a particular hardcopy instance document as taught by Cass, providing the benefit of using formless forms offering a new flexibility when applied in existing paper based user interfaces also providing new applications for paper-based user interface (Cass, col 3, lines 30-37).

**In regard to independent claim 12**, Carleton teaches a plurality of workstations comprising a computer processor, a display (ie., computers linked together displaying)(col 1, line 65 – col 2, line 5). Carleton does not expressly teach, but Tran teaches a capture device for capturing a digital image of a document (ie., text or

graphical illustration, camera , electronic notepad; digital )(co 2, lines 59-63; col 7, lines 46 - 60).

Carleton teaches a base computer communicating with the plurality of workstation (ie., a single computer runs an application and displays on other computers)(col 1, line 65 – col 2, line 5).

Carleton does not express teach but Tran teaches (a) identifying handwritten annotations in digital images of document captured at each workstation (ie., handwritten recognition software for entry/display of pen-based computer as an electronic notepad for annotating photographs, pictures captured by a camera that is uploaded to a user computer) (col 7, lines 55-65).

Carleton in view of Tran doesn't expressly teach, but Simonoff teaches (b) communicating data ... plurality of workstations (ie., users at dissimilar computers can annotate the information presented to all users)(col 1, lines 20-25).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (c) using the data representing ... each workstation (ie., a decoder at client computer that decodes at a user location so user can work on his/her own version)(col 4, lines 40-50).

Carleton in view of Tran does not expressly teach, but Simonoff teaches (d) displaying ... first and second workstations (ie., first and second users instantiate objects on the whiteboard clients, that are relayed to the other clients)(col 7, lines 5-18).

Carleton in view of Tran does not expressly teach, but Simonoff teaches the one or more ... each workstation (ie., at each client computer, the interpreter decoder decodes information specifying an operation to be performed at user)(col 4, lines 44-50).



Carleton in view of Tran and Simonoff does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

Carleton in view of Tran and Simonoff does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton to include digital/graphical electronic files and handwritten annotations as taught by Tran, providing the benefit of creating and attaching text or graphical illustrations to a message, file, data set including photographic annotations depicting circumstances leading up the photograph/graphical image (Tran, col 2, lines 59-67), further to include users at dissimilar computers annotating the information presented to users, a decoder at client computer that decodes at a user location specifying an operation to be performed at user location, where first and second users collaboratively annotate objects on the whiteboard as taught by Simonoff, providing the benefit of facilitating interchange of information between two or more dissimilar computer users, where users can annotate the information presented to all users (Simonoff, 1, lines 20-30), further to include annotations of an image of an image of a particular hardcopy instance document as taught by Cass, providing the benefit of using formless forms offering a new flexibility when applied in existing paper based user

interfaces also providing new applications for paper-based user interface (Cass, col 3, lines 30-37).

**Regarding claim 2, 13,** Carleton in view of Tran does not expressly teach, but Simonoff teaches an additional annotation made by the first or second workstations (ie., user can add objects to whiteboard displayed; update information)(col 16, lines 25-34; col 1, line 24). It would have been obvious to one of ordinary skill that to update the distribution of annotations to the plurality of workstations (ie., col 1, line 24 teaches updating the information presented to all users).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include adding objects to whiteboard displays to update information as taught by Simonoff, providing the benefit of facilitating collaboration between a plurality of users (Simonoff, Abstract section).

**In regard to dependent claim 3, 14,** Carleton does not teach, but Tran teaches capture device at least one workstation comprises a camera (ie., digital camera)(Abstract).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton to include a camera as taught by Tran, providing the benefit of annotations to graphical messages, files (Tran, col 2, lines 59-65).

**In regard to dependent claim 4, 15,** Carleton teaches information representing the annotation as a bitmap (ie., annotations need bitmap)(col 10, line 9 –11).

Carleton teaches information indicating the location of the annotation in a document (ie., annotation logic draws corresponding annotation at the remote computer as from the original computer)(col 7, lines 28-38).

Carleton in view of Tran and Simonoff does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran and Simonoff to include annotations of an image of an image of a particular hardcopy instance document as taught by Cass, providing the benefit of using formless forms offering a new flexibility when applied in existing paper based user interfaces also providing new applications for paper-based user interface (Cass, col 3, lines 30-37).

**In regard to dependent claim 5, 16,** Carleton in view of Tran does not expressly teach, but it would have been obvious with Simonoff's teachings to have annotation object ... annotation (ie., the server maintains a list of files and their origination, where the files contain annotations/updates from various client users (col 10, lines 35-65; Fig 6).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include a server that maintains a list of files and their origination as taught by Simonoff, providing the benefit of facilitating

collaboration between a plurality of users (Simonoff, Abstract section) and distinguishing the origin location of annotations.

**In regard to dependent claim 6, 17,** Carleton in view of Tran does not teach, but it would have been obvious with Simonoff's teachings to have annotation ... annotation (ie., the server maintains a list of files and their meta-data associated with files that contain annotations)(Fig 6, see column labeled 'uploaded').

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include a server that maintains a list of files and their meta-data associated with files that contain annotations as taught by Simonoff, providing the benefit of facilitating collaboration between a plurality of users (Simonoff, Abstract section).

**In regard to dependent claim 8,** Carleton in view of Tran does not expressly teach, but Simonoff teaches plurality of workstations ... origin of the annotation (ie., individual user selects a drawing color for the annotations)(col 11, lines 44-45).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include individual user to select a drawing color as taught by Simonoff, providing the benefit of facilitating collaboration between a plurality of users (Simonoff, Abstract section) and distinguishing the origin location of annotations.

**In regard to dependent claim 9,** Carleton teaches "each workstation is operative to identify handwritten annotations" (col 1, lines 65 – col 2, line 5).

**In regard to dependent claim 10**, Carleton does not specifically teach, but Tran teaches “the base computer is operative to identify handwritten annotations” (col 7, lines 46 – 65).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton to include a base computer that accepts handwritten input as taught by Tran, providing the benefit of attaching graphical illustrations with annotations as an option for users.

**In regard to dependent claim 19**, Carleton teaches “annotations originating from at least two different other workstations”(ie., three mouses, three cursors, three arrows)(col 4, lines 60-67).

**In regard to dependent claim 20**, Carleton in view of Tran does not expressly teach, but Simonoff teaches plurality of workstations ... origin of the annotation (ie., individual user selects a drawing color for the annotations)(col 11, lines 44-45).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include individual user to select a drawing color as taught by Simonoff, providing the benefit of facilitating collaboration between a plurality of users (Simonoff, Abstract section) and distinguishing the origin location of annotations.

**Regarding claim 21, 22**, Simonoff teaches one or more of ... author (ie., whiteboard server maintains the specific client origination of the upload ... identity of user)(ie., col 10, lines 35-44).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran to include whiteboard server that maintains the specific client origination of the upload, including identity of user as taught by Simonoff, providing the benefit of facilitating collaboration between a plurality of users (Simonoff, Abstract section) and distinguishing the origin location of annotations.

**1-2) Claims 7, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Carleton (as cited above) in view of Tran (as cited above) and Simonoff (as cited above), further in view of Levine et al (US Patent 5680636, issued Oct 1997), further in view of Cass (as cited above).**

**In regard to dependent claim 7, 18, Carleton in view of Tran does not teach, but Levine teaches information representing the identity of the document with which the annotation is associated (ie., files per annotation are catalogued in a table of contents file referred to as a superfile... associated with a particular document)(col 7, lines 1-7).**

Carleton in view of Tran, Simonoff and Levine does not teach, but Cass teaches annotations on a "hardcopy" document (ie., image of a marked document instance, an image of a particular hardcopy instance of a document and on which instance the use has made a mark (... graphical or written annotations))(Cass, lines 12-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Carleton in view of Tran and Simonoff to include a catalog of annotations as taught by Levine, providing the benefit of having a friendlier computer device (col 1, lines 50-55) and a means to access the documents that contain annotations further to include annotations of an image of an image of a particular

hardcopy instance document as taught by Cass, providing the benefit of using formless forms offering a new flexibility when applied in existing paper based user interfaces also providing new applications for paper-based user interface (Cass, col 3, lines 30-37).

### ***Response to Arguments***

Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection. Applicant primarily argues that the references in combination fail to teach the newly added amendment that the handwritten annotations made to a hardcopy document by identifying the annotations in a captured image. Examiner disagrees with the rejection using the Cass reference. Specifically, Cass teaches an image of a particular hardcopy instance of a document and on which instance the user has made a mark (annotation) with a pen, ... (Cass, page 8, lines 12-19).

### ***Conclusion***

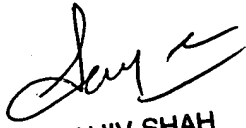
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gautam Sain whose telephone number is 571-272-4096. The examiner can normally be reached on M-F 9-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2176

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GS

  
SANJIV SHAH  
PRIMARY EXAMINER